

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Canceled)

2. (Canceled)

3. (Previously Presented) The polarizer according to claim 8, wherein the quartz substrate part has a rectangular structure.

4. (Previously Presented) The polarizer according to claim 8, wherein the quartz substrate part has triangular structure.

5. (Previously Presented) The polarizer according to claim 8, wherein the quartz substrate part has a parallelogram structure.

6. (Canceled)

7. (Previously Presented) The polarizer according to claim 8, wherein the quartz substrate part comprises a plurality of quartz substrates stacked on top of one another.

8. (Currently Amended) A polarizer, comprising:

a plurality of quartz substrate parts, each quartz substrate part including one or more quartz substrates; and

a polarizer holder supporting said plurality of quartz substrate parts, wherein the polarizer holder includes an optically absorptive material, and wherein the polarizer holder absorbs light reflected by the plurality of quartz substrate parts.

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9. (Previously Presented) The polarizer according to claim 8, wherein each of said plurality of quartz substrate parts is placed at a non-zero angle relative to a normal line of the surface of the polarizer holder.

10. (Currently Amended) The large-scale polarizer according to claim 8, wherein each of said plurality of quartz substrate parts is placed at the Brewster's angle relative to a normal line of the surface of the polarizer holder.

11. (Currently Amended) A polarizer system, comprising:

a light source for generating a light;

a quartz substrate part comprising a plurality of quartz substrates stacked on top of one another;

a polarizer holder supporting the quartz substrate part, wherein the polarizer holder includes an optically absorptive material, and wherein the polarizer holder absorbs light reflected by the quartz substrate part; and

means for directing said light onto said quartz substrate part.

12. (Canceled)

13. (Previously Presented) The polarizer system according to claim 22, wherein the quartz substrate part has

a rectangular structure.

14. (Previously Presented) The polarizer system according to claim 22, wherein the quartz substrate part has a triangular structure.

15. (Previously Presented) The polarizer system according to claim 22, wherein the quartz substrate part has a parallelogram structure.

16. (Canceled)

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17. (Previously Presented) The polarizer system according to claim 22, wherein each quartz substrate part comprises a plurality of quartz substrates stacked on top of one another.

18. (Previously Presented) The polarizer system according to claim 22, wherein said means for directing said light collimates said light.

19. (Previously Presented) The polarizer system according to claim 22, wherein said means for directing said light collimates said light and the quartz substrate part partially polarizes said collimated light.

20. (Previously Presented) The polarizer system according to claim 22, wherein each of said plurality of quartz substrate parts is placed at a non-zero angle relative to a normal line of the surface of the polarizer holder.

21. (Previously Presented) The polarizer system according to claim 22, wherein each of said plurality of quartz substrate part is placed at the Brewster's angle relative to a normal line of the surface of the polarizer holder.

22. (Currently Amended) A polarizer system, comprising:

a light source for generating a light;

a plurality of quartz substrate parts, each quartz substrate part including one or more quartz substrates;

a polarizer holder supporting said plurality of quartz substrate parts, wherein the polarizer holder includes an optically absorptive material, and wherein the polarizer holder absorbs light reflected by the plurality of quartz substrate parts; and

a means for directing said light onto said plurality of quartz substrate parts.

23. (Original) The polarizer system according to claim 17,

wherein each quartz substrate part includes means for partially polarizing said light, and wherein the degree of partial polarization depends on the number of said quartz substrates stacked on top of one another.

24. (Canceled)

25. (Canceled)

26. (Canceled)

27. (Withdrawn) A polarizer system, comprising:

a light source for generating a light; a lens for collimating said light;

one or more sets of plurality of quartz substrate parts, each quartz substrate part having one or more quartz substrates; and

one or more polarizer holders supporting respective one or more sets of plurality 7 of quartz substrate parts, wherein zero or more of said one or more polarizer holders are placed between the light source and the lens, and wherein zero or more of said one ore more polarizer holders are placed after the lens.

28. (Withdrawn) A polarizer system, comprising:

a light source for generating a light;

a lens;

at least a first polarizer including a quartz substrate adjacent the lens; and

a support member supporting an alignment layer, the polarizer being positioned between the light source and the support member.

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29. (Withdrawn) The polarizer system according to claim 28, wherein the lens includes a collimating lens and the collimating lens being positioned between the first polarizer and the light source.

30. (Withdrawn) The polarizer system according to claim 29, further comprising a second polarizer and a second lens, the second polarizer and the second lens being positioned between the light source and the first polarizer.

31. (Withdrawn) A method of forming a liquid crystal display device having first and second substrates comprising:

forming a photo-alignment layer on the first substrate;

irradiating the photo-alignment layer with ultraviolet light through a polarizer system including a quartz substrate unit; and

firming a liquid crystal layer between the first and second substrates.

32. (Withdrawn) The method according to claim 31, wherein the quartz substrate unit includes a plurality of substrates.

33. (Withdrawn) The method according to claim 32, wherein the plurality of quartz substrates has a size corresponding to a liquid crystal display panel.

34. (Withdrawn) The method according to claim 31, wherein the step of irradiating the photo-alignment layer includes directing the collimated light to the photo-alignment layer through a polarizer.

35. (Withdrawn) A method of forming a liquid crystal display device having first and second substrates comprising:

forming a photo-alignment layer on the first substrate;

irradiating the photo-alignment layer with ultraviolet light through a polarizer system including a first polarizer and a first lens unit; and

forming a liquid crystal layer between the first and second substrates.

36. (Withdrawn) The method according to claim 35, wherein the polarizer system further includes:

an ultraviolet light source;

a second lens unit receiving light from the first polarizer and first lens unit; and

a second polarizer receiving light from the second lens unit.

37. (Withdrawn) The method according to claim 35, wherein the first polarizer partially polarizes the ultraviolet light.